We claim:

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Sub-9 1. An immortalized Stat1-/- mammalian cell line.

- 2. The cell line of Claim 1, wherein mammalian is murine or human.
- 3. The cell line of Claim 1, wherein said cell line was obtained by selection for spontaneously immortalized cells or by transformation.
- 4. The cell line of Claim 1, wherein the cells of said cell line are endothelial cells, epithelial cells, hematopoetic cells, bone marrow cells, kidney cells or liver cells.
- 5. The cell line of Claim 4, wherein said epithelial cells are fibroblast cells.
- 6. A method of producing a viral stock which comprises:
- (a) infecting immortalized Stat1-/- mammalian cells with a virus;
- (b) culturing said infected cells under conditions and for a time to replicate said virus; and
- (c) recovering the so-produced virus to provide said viral stock.
- 7. The method of Claim 6, wherein said virus is influenza virus, parainfluenza virus, measles virus, respiratory syndytial virus, a hepatitis virus, adenovirus, a herpes virus or vesicular stomatitis virus.
  - 8. The method of Claim 6, wherein said mammalian cells are murine cells or human cells.

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- 9. The method of Claim 6, wherein said cells are endothelial cells, epithelial cells, hematopoetic cells, bone marrow cells, kidney cells or liver cells.
- 10. The method of Claim 9, wherein said epithelial cells are fibroblast cells.
- 11. The method of Claim  $^{6}$ , wherein said virus replicates to a titer ranging from about  $10^{2}$  plaque forming units per milliliter to more than  $10^{6}$  plaque forming units per milliliter.
- 12. A method of producing a recombinant viral vector which comprises:
- (a) infecting or transfecting immortalized Stat1-/- mammalian cells with said vector;
- (b) culturing said cells under conditions and for a time to replicate said vector; and
  - (c) recovering/the so-produced vector.
- 13. The method of Claim 12, wherein said vector is a DNA or RNA vector.
- 14. The method of Claim 12, wherein said vector is an adenovirus vector, a retrovirus vector or a sindbis virus vector.
- 15. The method of Claim 12, wherein said mammalian cells are murine cells or human cells.
- 16. The method of Claim 12, wherein said cells are endothelial cells, epithelial cells, hematopoetic cells, bone marrow cells, kidney cells or liver cells.
- 1/7. The method of Claim 16, wherein said epithelial cells are fibroblast cells.

- 18. A sensitive method for detecting the presence or absence of a virus in a sample which comprises:
- (a) contacting immortalized  $Stat1^{-/-}$  mammalian cells with said sample;
- (b) culturing said cells under conditions and for a time to allow replication of said virus and, optionally, recovering said virus; and
  - (c) identifying said virys.
- 19. The method of Claim 18, wherein said sample is a clinical sample which comprises a body fluid, body tissue or other bodily material.
  - 20. The method of/Claim 18, wherein identifying is by immunoassay, polymerase chain reaction or nucleic acid hybridization using a viral-specific reagent.
  - 21. The method of Claim 18, wherein said mammalian cells are murine cells or human cells.
  - 22. The method of Claim 18, wherein the cells are endothelial cells, epithelial cells, hematopoetic cells, bone marrow cells, kidney cells or liver cells.
  - 23/ The method of Claim 22, wherein said epithelial cells are fibroblast cells.
  - 24. The method of Claim 18, which further comprises quantitating the amount of virus in said sample.
  - 25. A method of screening or testing for compounds or drugs having antiviral activity which comprises:
  - (a) treating immortalized  $Stat1^{-/-}$  mammalian cells with a candidate compound;
    - $^{\prime}$ (b) infecting said cells with a virus;

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- (c) culturing said cells under conditions and for a time to allow replication of said virus; and
- (d) determining the amount of said virus produced relative to virus production in an untreated control cell line.
- 26. The method of Claim 25, wherein said mammalian cells are treated with said compound prior to said infecting step, concurrently with said infecting step or after said infecting step.
- 27. The method of Claim 25, wherein said amount of virus is determined by a cytopathic effect on indicator cells or by plaque formation on indicator cells.
- 28. The method of Claim 25, wherein said amount of virus is determined by immunoassay, a polymerase chain reaction or nucleic acid hybridization using a virus-specific reagent.
- 29. The method of Claim 27, wherein said amount of virus is determined quantitatively.
- 30. The method of Claim 28, wherein said amount of virus is determined quantitatively.
  - 31. The method of Claim 25, wherein said virus is influenza virus parainfluenza virus, measles virus, respiratory syncytial virus, hepatitis virus, adenovirus, a herpes virus, vesicular stomatitis virus, adenovirus, a retrovirus or sindbis virus.
  - 32. The method of Claim 25, wherein said mammalian cells are murine cells or human cells.

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34. The method of flaim 33, wherein said epithelial cells are fibroblast cells.

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